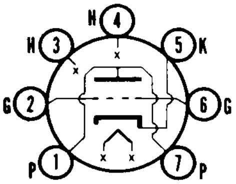


SYLVANIA TYPE 6AN4

UHF TRIODE



7 DK

MECHANICAL DATA

Bulb	T-5 ½, Outline 5-1
Base	Miniature Button 7-Pin
Basing	7DK
Mounting Position	Any

ELECTRICAL DATA

HEATER CHARACTERISTICS

Heater Voltage	6.3 Volts
Heater Current	225 Ma
Maximum Heater-Cathode Voltage	
Total D C and Peak	200 Volts
D C, Heater Positive with Respect to Cathode	100 Volts

DIRECT INTERELECTRODE CAPACITANCES

	Shielded[1]	Unshielded
Grid to Plate	1.7	1.7 μμf
Input	3.3	2.9 μμf
Output	1.8	0.25 μμf
Heater to Cathode[2]	2.9	3.0 μμf
Grid to Cathode[2]	2.6	2.6 μμf
Plate to Cathode[2]	0.18	0.20 μμf
Grounded Grid Operation		
Input	5.7	5.5 μμf
Output	3.4	1.8 μμf

6AN4 (Cont'd)

MAXIMUM RATINGS (Design Center Values)

Plate Voltage	300 Volts
Plate Dissipation	4 Watts
Cathode Current	30 Ma
Grid Circuit Resistance	
Fixed Bias	0.1 Megohm
Cathode Bias	0.5 Megohm

CHARACTERISTICS AND TYPICAL OPERATION

Class A_1 Amplifier

Plate Voltage	200 Volts
Cathode Bias Resistor	100 Ohms
Plate Current	13 Ma
Transconductance	10000 μmhos
Amplification Factor	70
Grid Voltage for I_b = 20 μa	−7 Volts

Mixer Service

Plate Voltage	125 Volts
Cathode Bias Resistor	270 Ohms
Plate Current	7.0 Ma
Oscillator Injection Voltage (R M S)	1.4 Volts
Conversion Transconductance	2900 μmhos

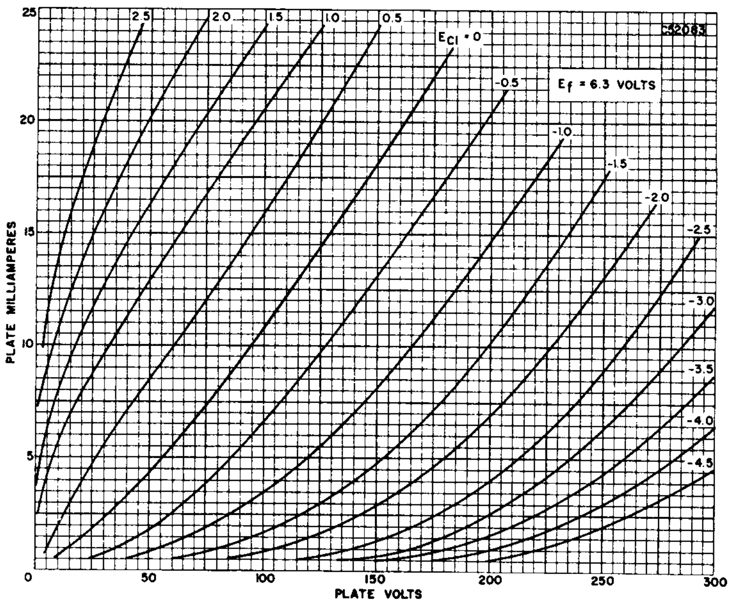
NOTES:

1. Shield No. 316.
2. Measured between specified elements only. When external shield is used, it shall be grounded.

APPLICATION

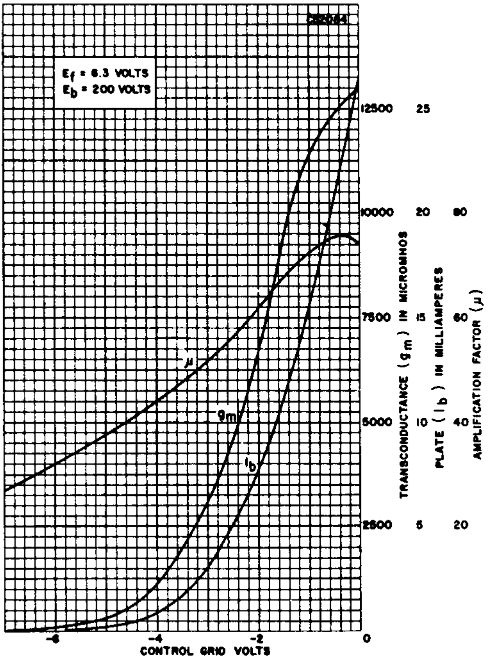
Sylvania Type 6AN4 is a miniature high-mu triode designed for use as a grounded grid amplifier or mixer in u h f television applications.

AVERAGE PLATE CHARACTERISTICS



6AN4 (Cont'd)

AVERAGE TRANSFER CHARACTERISTICS



AVERAGE TRANSFER CHARACTERISTICS

